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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
08/715,724	09/19/1996	PHILLIP E. WILSON	6000 4961		
7:	590 12/19/2003		EXAMINER		
KAREN M DELLERMAN			JUSKA, CHERYL ANN		
BASF CORPORATION					
26 Davis Drive			ART UNIT	PAPER NUMBER	
Research Trian	gle Park, NC 27709		1771		

DATE MAILED: 12/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No).	Applicant(s)	200		
	08/715,724		WILSON ET AL.			
Office Action Summary	Examiner		Art Unit	114		
	Cheryl Juska		1771			
The MAILING DATE of this communication app Period for Reply	ears on the cov	er sheet with the c	orrespondence add	Iress		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, how within the statutory m vill apply and will expiri- cause the application date of this communic	wever, may a reply be tim inimum of thirty (30) days e SIX (6) MONTHS from to become ABANDONEI	ely filed s will be considered timely, the mailing date of this cor O (35 U.S.C. § 133).	mmunication.		
1) Responsive to communication(s) filed on 28 Oc						
	action is non-fin					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) 2.3.9.10 and 23 is/are pending in the : 4a) Of the above claim(s) is/are withdrav 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 2.3.9 and 23 is/are rejected. 7) ⊠ Claim(s) 10 is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from conside					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acce						
Applicant may not request that any objection to the o	S. ,	•	` '			
Replacement drawing sheet(s) including the correcti	•	• • • •				
11) The oath or declaration is objected to by the Ex	aminer. Note th	e attached Office	Action or form PT	J-152.		
Priority under 35 U.S.C. §§ 119 and 120						
12)	s have been rec s have been rec tity documents had (PCT Rule 17, of the certified of c priority under at sentence of the visional applica	neived. reived in Application have been receive 2(a)). reprise not receive 35 U.S.C. § 119(e) he specification or tion has been receive 35 U.S.C. §§ 120	on No d in this National S d.) (to a provisional in an Application I eived. and/or 121 since a	application) Data Sheet.		
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5)		(PTO-413) Paper No(si atent Application (PTO-			

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DETAILED ACTION

Response to Amendment

1. The amendment filed October 28, 2003, has been entered. New claim 23 has been added. The pending claims are 2, 3, 9, 10, and 23.

Claim Objections

2. Claim 10 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim, or amend the claim to place the claim in proper dependent form, or rewrite the claim in independent form. Claim 10 depends from cancelled claim 22.

Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 2, 3, and 9 stand rejected under 35 USC 103(a) as being unpatentable over US 5,447,794 issued to Lin in view of US 5,468,555 issued to Lijten et al., and in further view of US 5,340,886 issued to Hoyt et al., as set forth in section 4 of the last Office Action.
- 5. New claim 23 is rejected under 35 USC 103(a) as being unpatentable over US 5,447,794 issued to Lin in view of US 5,468,555 issued to Lijten et al., and in further view of US 5,340,886 issued to Hoyt et al., as applied to claim 2 above.

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New claim 23 limits the second polyamide component (i.e., sheath) of claim 2, 3, or 9 to being substantially sulphonate-free.

Hoyt teaches a method of making an acid dye stain resistant nylon fiber by blocking available amine end groups with a chemical blocking agent (abstract). The chemical blocking agent may be a lactone, such as caprolactone or butyrolactone (col. 5, lines 15-42). Hoyt's working examples 2-7 show non-sulphonated nylon 6 that is treated with various amounts of butyrolactone to produce AEG concentrations ranging from 12-33 meq/kg, while examples 16-21 show a sulphonated nylon 6 treated with butyrolactone produces AEG concentrations ranging from 8-24 meq/kg (col. 9, lines 45-68 and col. 10, Table 1). Thus, although the sulphonated nylon may be the preferred embodiment, Hoyt clearly teaches non-sulphonated nylons having AEG concentrations of less than 30 meq/kg. Therefore, it would have been obvious to one skilled in the art to modify Lin's non-sulphonated nylon sheath with a chemical blocking agent, such as a lactone, in order to reduce the amount of free amine end groups, thereby improving the nylon's resistance to acid dyes.

Response to Arguments

 Applicant's arguments filed with the Amendment of October 28, 2003, have been fully considered but they are not persuasive.

Applicant traverses the above rejection by arguing that the Appeals Board did not misread the Lin reference, as asserted by the examiner in the last Office Action. Specifically, applicant asserts the Board *did not explicitly* attribute the amine end group (AEG) concentration of about 50 meg/kg to the sheath polymer (Amendment, page 5). In response, this point is

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conceded by the examiner. The fact remains that Lin does teach an AEG concentration for the nylon core polymer, but is silent with respect to an AEG concentration for the sheath polymer. However, whether or not the Board "misread" the reference, it not germane to the unobviousness of the present invention, as asserted by applicant (Amendment, page 5). In particular, the key point of the Board decision is that the cited prior art of Lin and Lijten does not support the rejection on appeal with respect to the AEG concentration limitations of claims 2, 3, 9, and 10. (See Board decision, sentence spanning pages 7-8 and Amendment, paragraph spanning pages 5-6). The examiner entirely conceded this point and a new rejection was made in the last Office Action.

7. Additionally, the examiner respectfully disagrees with applicant's assertion that the "teaching" provided by Lin "is essentially that amino end group contents are not important at all, and even if they were, Lin only discloses high amino end group contents of 50 meq/kg" (Amendment, sentence spanning pages 5-6). As stated above, Lin does teach an AEG concentration for the nylon core polymer, but is silent with respect to an AEG concentration for the sheath polymer. Contrary to applicant's belief, Lin's teaching of a relatively high AEG concentration for the core nylon does not direct one skilled in the art away from employing a low concentration in the nylon sheath (Amendment, page 6, 1st paragraph). The sheath and core are separate polymeric components, wherein the sheath component is on the surface of the fiber and hence, susceptible to staining. Lin's intent is to produce an acid dye stain resistant nylon fiber. One skilled in the art would readily know that having a high amine end group concentration in the sheath component makes the nylon sheath more susceptible to acid dye staining. The new rejection set forth in the last Office Action, and maintained above, is based upon Lin and Lijten

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based upon Lin and Lijten in further view of Hoyt, which teaches blocking amine end groups to produce a low AEG concentration in order to make the nylon polymer stain resistant to acid dyes. As such, it would have been obvious to one skilled in the art to employ known methods of blocking the amine end groups of the sheath nylon, such as that disclosed by Hoyt, in order to enhance the acid dye stain resistance of the nylon sheath of Lin.

8. With respect to the Blackwell declaration, it is noted that said declaration merely evidences that the AEG concentration of Lin's nylon polymer employed for the sheath could not be determined through an internet search by Blackwell. There is no evidence of unobviousness presented. Thus, said declaration is insufficient to overcome the above rejections.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Cheryl Juska whose telephone number is 703-305-4472. The Examiner can normally be reached on Monday-Friday 10am-6pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Terrel Morris can be reached on 703-308-2414. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

CHEAN A WISKA